

**AMENDMENTS TO THE CLAIMS**

Please amend Claims 2 and 10 as follows. Insertions are shown underlined while deletions are ~~struck through~~. Please cancel Claims 1 and 13.

1 (canceled)

2 (currently amended): A helical synchronous belt having core cords, substantially all of which are twisted in a single direction at an angle opposing to an angle of helical teeth, with the helical tooth angle set to 5° to 15° and core cord twist angle set to 15° to 2°, wherein no canvas is formed on the helical teeth nor on a surface between the helical teeth, said surface has having irregularities created by the twisting of the core cords and configured to contact tops of pulley teeth.

3 (original): The helical synchronous belt as described in Claim 2, which has a helical tooth angle of 10°, 7° or 5° and core cord twist angle of 10.2° or 4.8°.

4 (previously presented): The helical synchronous belt as described in Claim 2, further comprising a back layer wherein the back layer and teeth are made of urethane resin and the core cords are made of aramid fiber or glass fiber.

5 (previously presented): The helical synchronous belt as described in Claim 2, which is used for driving carriage.

6 (previously presented): The helical synchronous belt as described in Claim 3, further comprising a back layer wherein the back layer and teeth are made of urethane resin and the core cords are made of aramid fiber or glass fiber.

7 (previously presented): The helical synchronous belt as described in Claim 3, which is used for driving carriage.

8 (previously presented): The helical synchronous belt as described in Claim 4, which is used for driving carriage.

9 (previously presented): The helical synchronous belt as described in Claim 6, which is used for driving carriage.

10 (currently amended): A helical synchronous belt comprising:

a back layer;

helical teeth configured to be engaged with a pulley and arranged at a helical tooth angle which is formed by a tooth inclination line of each helical tooth and a line perpendicular to a longitudinal direction of the belt; and

core cords embedded between the back layer and the teeth and aligned in the longitudinal direction of the belt for reinforcing the belt, substantially all of said core cords being twisted in a single direction at a twist angle which is formed by a twist inclination line of each core cord and a line parallel to a longitudinal direction of the core cords,

wherein a direction of the tooth inclination line and a direction of the twist inclination line are opposite to each other with respect to the line perpendicular to the longitudinal direction of the belt, and the helical tooth angle and the twist angle are set at  $5^{\circ}$  to  $15^{\circ}$  and  $2^{\circ}$  to  $15^{\circ}$ , respectively,

wherein no canvas is formed on the helical teeth nor on a surface between the helical teeth, said surface has having irregularities created by the twisting of the core cords and configured to contact tops of pulley teeth.

11 (previously presented): The helical synchronous belt as described in Claim 10, wherein the helical tooth angle is set at  $5^{\circ}$ ,  $7^{\circ}$ , or  $10^{\circ}$  and the core cord twist angle is set at  $4.8^{\circ}$  or  $10.2^{\circ}$ .

12 (previously presented): The helical synchronous belt as described in Claim 10, wherein the back layer and the helical teeth are made of urethane resin, and the core cords are made of aramid fiber or glass fiber.

13 (canceled)